International Erosion Control Association

Sediment control Sediment controls are generally designed to be temporary measures, however, some can be used for storm water management purposes. Sediment controls are usually employed together with erosion controls, which are designed to prevent or minimize erosion and thus reduce the need for sediment controls. erosion control and construction industries International Erosion Control Association Professional Association, Publications, Training “Developing Your - A sediment control is a practice or device designed to keep eroded soil on a construction site, so that it does not wash off and cause water pollution to a nearby stream, river, lake, or sea 5e383a3cd0

Human activities have increased by ca. 28 times the rate at which erosion is naturally occurring world-wide. Excessive (or accelerated) erosion causes both "on-site" and "off-site" problems. On-site impacts include decreases in... 5e383a3cd0 By definition, endangered species suffer varying degrees of genetic erosion. Many species benefit from a human-assisted breeding program to keep their population viable, thereby avoiding extinction over long time-frames. Small populations are more susceptible to genetic erosion than... 5e383a3cd0 Each horizontal contour level row of fiber rolls is installed on slopes, ending with one at the base of the slope, below an active construction area before soil disturbance (earth moving) begins. The space between each row of fiber roll is dependent on the steepness of the slope. The steeper the slope, the more rows of evenly spaced horizontal contour level fiber rolls are used. Each fiber roll is installed on a horizontal contour level in shallow trenches 2 to 4 inches (5 to 10 cm) deep and fastened to the ground with wooden stakes. 5e383a3cd0

Fiber roll It is made of straw, coconut fiber or similar material formed into a tubular roll. Control a trade magazine for the erosion control and construction industries International Erosion Control Association - Professional Association, - A fiber roll is a temporary erosion control and sediment control device used on construction sites to protect water quality in nearby streams, rivers, lakes and seas from sediment erosion 5e383a3cd0

== Membership and activities == 5e383a3cd0 == Sediment trap == 5e383a3cd0 Properly installed fiber rolls are effective at trapping sediment, generally more effectively than straw bales. During rain storms, the rolls intercept surface stormwater runoff (but not concentrating or channeling the runoff) and reduce the velocity of flow. Water passes through a fiber roll while leaving behind the sediment on the uphill side of the roll, thereby... 5e383a3cd0 AMCA lobbies code bodies on behalf of member companies to ensure that member company products... 5e383a3cd0 Essential sediment abundance is prevalent in the construction industry which gives insight to future endeavors. 5e383a3cd0

Dental erosion There is widespread ignorance of the damaging effects of acid erosion; this is particularly the case with erosion due to consumption of fruit juices because they tend to be seen as healthy. Acid erosion is a type of tooth wear. Acid erosion begins initially in the enamel, causing it to become thin, and can progress into dentin, giving the tooth a dull yellow appearance and leading to dentin hypersensitivity. It is defined as the irreversible loss of tooth structure due to chemical dissolution by acids not of bacterial origin. It is defined as the irreversible loss of tooth structure due to chemical dissolution by acids not of bacterial Acid erosion is a type of tooth wear. Dental erosion is the most common chronic condition of children ages 5–17, although it is only relatively recently that it has been recognised as a dental health problem 5e383a3cd0

== Design and installation == 5e383a3cd0

Sediment basin The sediment-laden soil settles in the pond before the runoff is discharged. trade magazine for the erosion control and construction industries International Erosion Control Association – Professional Association, Publications, Training A sediment basin is a temporary pond built on a construction site to capture eroded or disturbed soil that is washed off during rain storms, and protect the water quality of a nearby stream, river, lake, or bay. They are often used in conjunction with erosion controls and other sediment control practices. On smaller construction sites, where a basin is not practical, sediment traps may be used. Sediment basins are typically used on construction sites of 5 acres (20,000 m2) or more, where there is sufficient room 5e383a3cd0

Air Movement and Control Association The Air Movement and Control Association International, Inc. (AMCA) is an international trade body that sets standards for Heating, Ventilation and Air Conditioning (HVAC) equipment. It rates fan balance and vibration, aerodynamic performance, air density, speed and efficiency. (AMCA) is an international trade body that sets standards for Heating, Ventilation and Air The Air Movement and Control Association International, Inc 5e383a3cd0

Genetic erosion The term is sometimes used in a narrow sense, such as when describing the loss of particular alleles or genes, as well as being used more broadly when referring to the loss of a phenotype or whole species. Genetic erosion (also known as genetic depletion or genomic erosion) is any decrease in genetic diversity, both naturally occurring and human-caused. Genetic erosion (also known as genetic depletion or genomic erosion) is any decrease in genetic diversity, both naturally occurring and human-caused 5e383a3cd0

On some construction projects, the sediment basin is cleaned out after the soil disturbance (earth-moving) phase of the project, and modified to function as a permanent stormwater management system for the completed site, either as a detention basin or a retention basin. 5e383a3cd0 == Commonly used sediment controls == 5e383a3cd0 Genetic erosion occurs because each individual organism has a unique genome. If the individual dies without the chance to breed, any unique genes they carry are lost before they can be passed down to offspring. Two factors that compound and accelerate genetic erosion are habitat loss and habitat fragmentation–often brought on by development of agricultural and infrastructural areas–and low genetic diversity. Low genetic diversity is linked to inbreeding and a weak immune system both of which can then "fast-track" that species towards eventual extinction. 5e383a3cd0 == Usage == 5e383a3cd0 == Installation == 5e383a3cd0 Bank erosion is a natural process: without it, rivers would not meander and change course. However, land management patterns that change the hydrograph and/or vegetation cover can act to increase or decrease channel migration rates. In many places, whether or not the banks are unstable due to human... 5e383a3cd0 AMCA membership is open to any company that manufactures or holds the design of a product that falls under the AMCA scope. 5e383a3cd0

Erosion Erosion is distinct from weathering which involves no movement. Typically, physical erosion proceeds the fastest on steeply sloping surfaces Erosion is the action of surface processes (such as water flow or wind) that removes soil, rock, or dissolved material from one location on the Earth's crust and then transports it to another location where it is deposited. The rates at which such processes act control how fast a surface is eroded. flows. Removal of rock or soil as clastic sediment is referred to as physical or mechanical erosion; this contrasts with chemical erosion, where soil or rock material is removed from an area by dissolution. Eroded sediment or solutes may be transported just a few millimetres, or for thousands of kilometres 5e383a3cd0

Erosion controls are used in natural areas, agricultural settings or urban environments. In urban areas erosion controls are often part of stormwater runoff management programs required by local governments. The controls often involve the creation of a physical barrier, such as vegetation or rock, to absorb some of the energy of the wind or water that is causing the erosion. They also involve building and maintaining storm drains. On construction sites they are often implemented in conjunction with sediment controls such as sediment basins and silt fences. 5e383a3cd0

Silt fence Erosion Control. pp. A silt fence, sometimes (misleadingly) called a filter fence, is a temporary sediment control device used on construction sites to protect water quality in nearby streams, rivers, lakes and seas from sediment (loose soil) in stormwater runoff. "Silt Fence Installation". However, their effectiveness in controlling sediment can be limited, due to problems with poor installation, proper placement, and/or inadequate maintenance. 133-154. International Erosion Control Association, Nashville, TN. Brzozowski, Carol (Nov–Dec 2006). Silt fences are widely used on construction sites in North America and elsewhere, due to their low cost and simple design 5e383a3cd0

Agents of erosion include rainfall; bedrock wear in rivers; coastal erosion by the sea and waves; glacial plucking, abrasion, and scour; areal flooding; wind abrasion; groundwater processes; and mass movement processes in steep landscapes like landslides and debris flows. The rates at which such processes act control how fast a surface is eroded. Typically, physical erosion proceeds the fastest on steeply sloping surfaces, and rates may also be sensitive to some climatically controlled properties including amounts of water supplied (e.g., by rain), storminess, wind speed, wave fetch, or atmospheric temperature... 5e383a3cd0

Soil erosion Soil erosion could also cause sinkholes and soil pipes that can further develop into rills and gullies. This natural process is caused by the dynamic activity of erosive agents, that is, water (e. glaciers), snow (e. g. Wikiversity The Soil Erosion Site International Erosion Control Association Soil Erosion Data in the European Soil Portal USDA National Soil Erosion Laboratory Soil erosion is the denudation or wearing away of the upper layer of soil. avalanches, snow gliding), air (e. g. Soil erosion may be a slow process that continues relatively unnoticed, or it may occur at an alarming rate causing a serious loss of topsoil. landslide, flooding), ice (e. In accordance with these agents, erosion is sometimes divided into water erosion, glacial erosion, snow erosion, wind (aeolian) erosion, zoogenic erosion and anthropogenic erosion such as tillage erosion. The loss of soil from farmland may be reflected in reduced cropland area and production potential, lower surface water quality and damaged drainage networks. wind), plants (e. g. tree uprooting), and animals (including humans). g. It is a form of soil degradation. g 5e383a3cd0

AMCA publications and standards are developed when sufficient interest has been expressed by AMCA members. Publication and standard writing committees are composed of volunteers, which include both AMCA members and interested individuals with a technical background. All AMCA standards are proposed as American National Standards. 5e383a3cd0

Erosion control Effective erosion controls handle surface runoff and are important techniques in preventing water pollution, soil loss, wildlife habitat loss and human property loss. erosion control Erosion Control Technology Council a trade organization for the erosion control industry International Erosion Control Association - - Erosion control is the practice of preventing or controlling wind or water erosion in agriculture, land development, coastal areas, river banks and construction 5e383a3cd0

The most common causes of erosion are acidic foods and drinks. In general, foods and drinks with a pH below 5.0–5.7 have been known to trigger dental erosion effects. Numerous clinical and laboratory reports link erosion to excessive consumption of such drinks. Those thought to pose a risk are soft drinks, some alcohol and fruit drinks, fruit juices such as orange juice (which contain citric acid) and carbonated drinks such as colas (in which the carbonic acid is not the cause of erosion, but... 5e383a3cd0 AMCA was formed in 1955 from several earlier trade associations which could be tracked back to the fan-testing requirements of the US Navy in 1923. It is a nonprofit organization that issues over 60 publications and standards, including testing methods, a Certified Ratings Program (CRP), application guides, educational texts, and safety guides. 5e383a3cd0

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